Fig. 2

SUGAR—O—
$$CH_2$$
— NH — CH_2 — NH_2

NaBH₃CN

SUGAR—O— CH_2 — NH — CH_2 — NH

Fig. 3

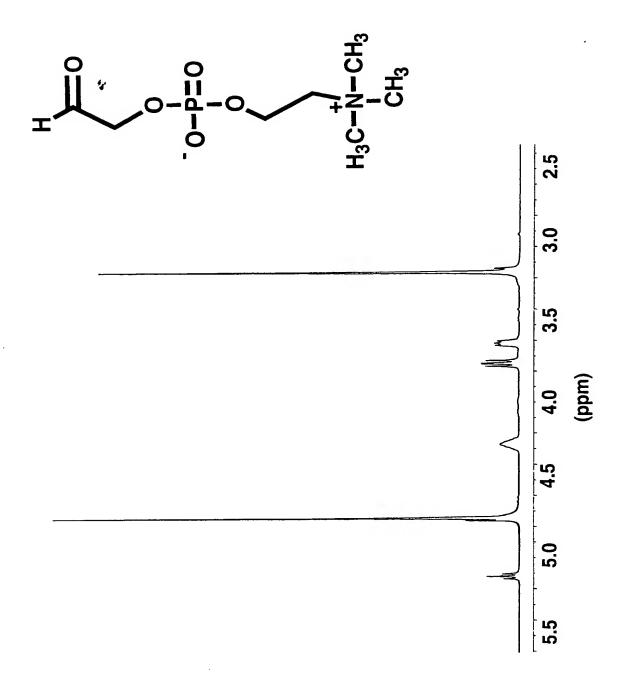


Fig. 4

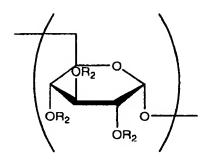
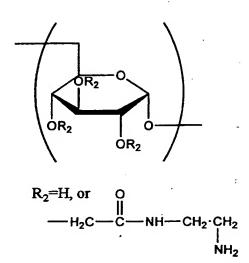


Fig. 5



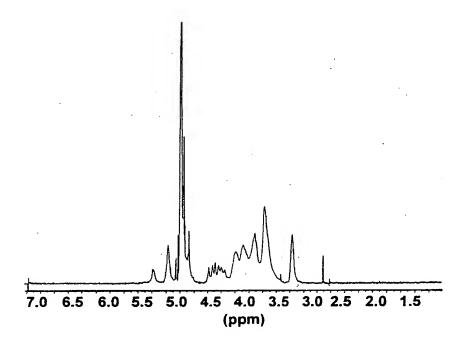


Fig. 6

R=H or CH₂-CONHCH₂CH₂NH₂

Fig. 7

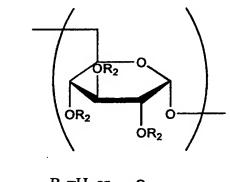
Fig. 8

R=H or CH₂COOH

Fig. 9

R=H or CH₂CONHCH₂CH₂NH₂

Fig. 10



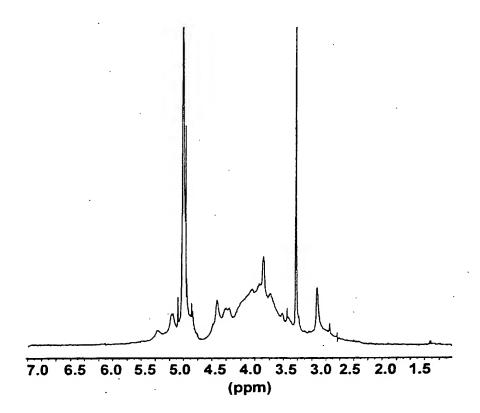


Fig. 11

Fig. 12

$$\begin{array}{c} CH_{3} & O \\ I+\\ CH_{2}-CH_{2}-O-P-O-CH_{2}-CH_{2} \\ CH_{3} & O-\\ \\ CONHCH_{2}CH_{2}NH & OH\\ \\ OH & OH\\ \end{array}$$

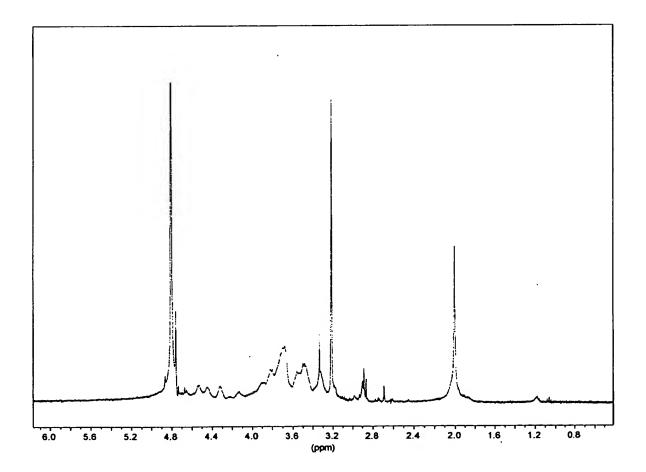


Fig. 13

Fig. 14

or CH₂CONHCH₂CH₂NHCO-C₁₂H₂₅

Fig. 15

Fig. 16

$$CF_3\text{-}CF_2\text{-}CF_2\text{-}CF_2\text{-}CF_2\text{-}CF_2\text{-}CH_2\text{-}$$

Fig. 17

$$R = H, \text{ or } O \\ -H_{2}C - C - NH - CH_{2} - CH_{2} \\ -H_{3}C - NH - CH_{2} - CH_{2} \\ -H_{3}C - N - CH_{2} - CH_{2} - O - P - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - O - CH_{2} - CH_{2} \\ -CH_{3} - O - CH_{3} - CH_{2} \\ -CH_{3} - O - CH_{3} - CH_{3} \\ -CH_{3} - CH_{3}$$

-CH₂CONHCH₂CH₂NHCO-C₁₂H₂₅

Fig. 18

Fig. 19

Fig. 20

R=H or CH₂CH₂OH

Fig. 21

Fig. 22

Fig. 23

R=H or CH₂CH₂OH

$$R = H, \text{ or } O \\ || \\ -H_{2}C - C - NH - CH_{2} \cdot CH_{2} \\ || \\ CH_{3} \qquad O \qquad NH \\ || \\ H_{3}C - N - CH_{2} - CH_{2} \cdot O - P - O - CH_{2} - CH_{2} \\ || \\ CH_{3} \qquad O - O - CH_{2} - CH_{2} - CH_{2}$$

Fig. 24

